



# SHIKSHA CLASSES

Sub. : Science

Question Paper

Marks : 20

Std. : VIII<sup>th</sup> - S.B.

6. Composition of Matter

Time : 45 min.

**Q.1(A) : Choose the correct alternative**

2

1) The intermolecular force is \_\_\_\_\_ in the particles of solid.

- a) minimum
- b) moderate
- c) maximum
- d) indefinite

2) Milk is an example of type of matter called \_\_\_\_\_.

- a) solution
- b) homogeneous mixture
- c) heterogeneous mixture
- d) suspension

**Q.1(B) : Solve any one of the following question**

1

1) Define Elasticity.

2) Identify the odd term out

Gold, silver, copper, brass.

3) Write the names and symbols of the constituent elements and identify their valencies from the molecular formulae given below.  $\text{BaCl}_2$

**Q.2(A) : Give reason (Any One)**

2

1) Hydrogen is combustible, oxygen helps combustion, but water helps to extinguish fire.

2) Lemon sharbat has sweet, sour and salty taste and it can be poured in a glass.

**Q.2(B) : Solve any two of the following question.**

4

1) In one sample of brass, the following ingredients were found: copper (70%) and zinc (30%). Identify the solvent, solute and solution from these.

2) Chemical composition of some matter is given in the following table. Identify the main type of matter from their composition.

	Name of matter	Chemical composition	Main type of matter
i)	Hydrogen gas filled in a balloon	$\text{H}_2$	
ii)	Baking soda	$\text{NaHCO}_3$	

3) Write the difference between element and compound.

4) Give two examples each.

- a) Liquid element.
- b) Colloid

**Q.3 : Solve any two of the following question.**

6

- 1) Plants synthesize glucose in sunlight with the help of chlorophyll from carbon dioxide and water and give away oxygen. Identify the four compounds in this process and name their types.
- 2) **Define :**
  - a) Solution
  - b) Suspension
  - c) Inorganic compound
- 3) State the characteristics of a colloid.
- 4) Seawater tastes salty due to the dissolved salt. The salinity (the proportion of salts in water) of some water bodies Lonar lake – 7.9%, Pacific Ocean 3.5%, Mediterranean sea – 3.8%, Dead sea – 33.7%. Explain two characteristics of mixtures from the above information.

**Q.4 : Solve any One of the following question.**

5

- 1) **Explain :**
  - a) Water is a compound
  - b) Milk is a mixture
- 2) Deduce the molecular formulae of the compound obtained from the following pairs of elements by the cross multiplication method.
  - a) N (Valency 3) and H (valency 1)
  - b) Ca (Valency 2) and O (valency 2)
  - c) Fe (Valency 2) and S (valency 2)
  - d) C (Valency 4) and H (valency 1)
  - e) H (Valency 1) and O (valency 2)

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